

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING

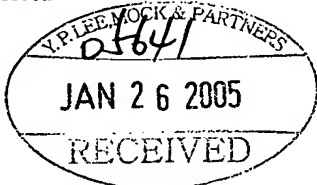
# PCT

## NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

( PCT Rule 71.1 )

To:  
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Date of mailing  
(day/month/year) 20 JANUARY 2005 (20.01.2005)

Applicant's or agent's file reference  
SH-19103-PCT

### IMPORTANT NOTIFICATION

International application No. <b>PCT/KR2003/002121</b>	International filing date (day/month/year) <b>14 OCTOBER 2003 (14.10.2003)</b>	Priority date (day/months/year) <b>18 OCTOBER 2002 (18.10.2002)</b>
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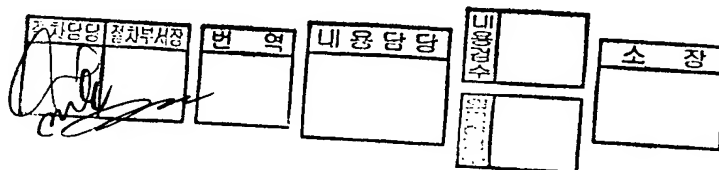
Applicant


**SAMSUNG ELECTRONICS CO., LTD. et al**

1. The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**  
The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.



Name and mailing address of the IPEA/KR  

 Korean Intellectual Property Office  
 920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
 Republic of Korea  
 Facsimile No. 82-42-472-7140

Authorized officer  
  
 COMMISSIONER  
 Telephone No. 82-42-481-5207



## PATENT COOPERATION TREATY



## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SH-19103-PCT	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/KR2003/002121</b>	International filing date (day/month/year) <b>14 OCTOBER 2003 (14.10.2003)</b>	Priority date (day/month/year) 18 OCTOBER 2002 (18.10.2002)
International Patent Classification (IPC) or national classification and IPC  <b>IPC7 G11B 7/007</b>		
Applicant  <b>SAMSUNG ELECTRONICS CO., LTD. et al</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.  <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of _____ sheets:
3. This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand  <b>31 MARCH 2004 (31.03.2004)</b>	Date of completion of this report  18 JANUARY 2005 (18.01.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  SONG, Jin Suk  Telephone No. 82-42-481-5694 

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/002121

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/002121

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	1-33	YES
	Claims	none	NO
Inventive step (IS)	Claims	1-33	YES
	Claims	none	NO
Industrial applicability (IA)	Claims	1-33	YES
	Claims	none	NO

**2. Citations and explanations (Rule 70.7)**

Reference is made to the following documents;

D1=KR 2002-57729 A (LG ELECTRONICS CO. LTD.) 12 JULY 2002

D2=JP 12-268511 A (SANYO ELECTRIC CO. LTD.) 29 Sept. 2000

**1. Novelty and an inventive step**

Claims 1-33 meet the criteria set out in PCT Article 33(2)-33(3).

The subject matter of the present invention relates to a method and apparatus for managing disc defects using updatable defect management area (DMA), and disc thereof. A write once disc in claim 1 is a single record layer disc in which a lead-in area, a data area, and a lead-out area are sequentially disposed. The disc comprises a defect management area that is present at least once in the lead-in area and lead-out area wherein defect information and defect management information are repeatedly recorded in the DMA according to a recording operation.

A prior art D1 discloses a method for recording data of an optical recorder/reproducer. If a command is inputted, whether the command is for a write command or for a write/verify command is decided. If the command is for a write command, data is written during the length from a position designated in the write command. If the command is for a write/verify command, a position of a zone to write the data is discriminated. The data is written during the designated ECC block length in the discriminated zone. An optical pickup performs back-jump as much as the stored track number and waits until a write start position arrives.

A prior art D2 discloses a data recording method, device and method thereof. This invention makes a recordable moving picture clearly in real time even in a recording medium such as a magneto-optical disk relatively high in error rate.

(continued in a supplemental box)

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/002121

## Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

### Continuation of:

The present invention and cited ones belong to the same art concerning defects. Present and cited invention D1 are similar in avoiding defect area in reproducing a recording medium. But they differ in that the present invention use DMA for defect information and defect management information but in D1, an optical pick-up performs back jump as much as a stored track number and waits until a write start position is arrived. And if the write start position is arrived, data are read from the position.

Neither D1 nor D2 is clearly taught on the structure of the present recording medium and on the defect management area for the defect of the recording medium. Therefore novelty and an inventive step of the subject matter can be acknowledged. Claims 11, 21, 30, and 32 are considered to be novel and inventive as a similar reason in a claim 1. Other dependent claims are considered to be novel and inventive as independent claims 1, 11, 21, 30, and 32 are (considered to be novel and inventive.).

### 2. Industrial applicability

Claims 1-33 meet the criteria set out in PCT Article 33(4).